

**MULTIPLE REFRIGERANT CIRCUITS WITH
SINGLE ECONOMIZER HEAT EXCHANGER**

ABSTRACT OF THE DISCLOSURE

A multiple circuit refrigerant system includes a single economizer heat exchanger utilized for each of at least two circuits. The use of the single economizer heat exchanger reduces the cost of adding an economizer cycle, and further reduces other associated costs. Additionally, heat exchanger and overall system performance is enhanced further. Embodiments show the inclusion of two, three and four circuits, although greater numbers may also benefit from this invention.

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